

HOBBS OCD
MAY 08 2018
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Weatherford

Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Devon Energy
333 W. Sheridan Ave
Oklahoma City, OK, 73102

Date: August 30, 2017

Attention: Garrett Glaze

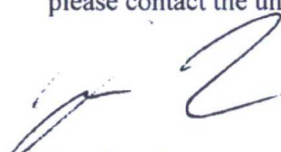
30-025-43237

Re: Devon Energy
Well: Blue Krait 23 Fed 3H
Lea County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc., a Weatherford company. Other information required by your office is as follows:

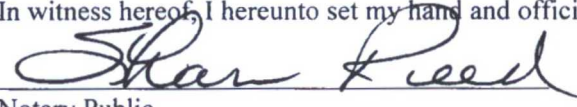
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Michael Lord	3H	1,440' MD	08/16/2017	Measurement
MWD Supervisor		14,087' MD	08/25/2017	While Drilling

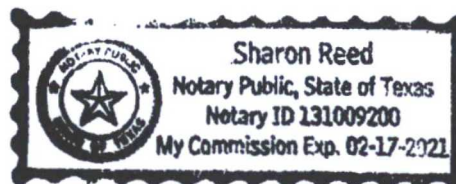
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Jonathan Leger
MWD Ops Coordinator

On this, the 29th day of August, 2017, before me a notary public, the undersigned officer, personally appeared Jonathan Leger, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.


Notary Public



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5D Survey Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Blue Krait 23 Fed 3H, 4H, 6H*
Well Name: *Blue Krait 23 Fed 3H*
Survey: *Definitive survey*

25 August 2017





Blue Krait 23 Fed 3H

Field Name: Lea Co, NM Nad 83 NMEZ	Map Units: US ft	Company Name: Devon Energy	
	Vertical Reference Datum (VRD): Mean Sea Level		
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)		
	Comment:		
Site: Blue Krait 23 Fed 3H, 4H, 6H	Units: US ft	North Reference: Grid	Convergence Angle: 0.42
	Elevation above MSL: 3562.20 US ft		
	Comment:		
Slot: Blue Krait 23 Fed 3H	Slot TVD Reference: Ground Elevation		
	Elevation above MSL: 3562.20 US ft		
	Comment:		
Well: Blue Krait 23 Fed 3H	Type: Main well	UWI:	
	File Number:	Comment:	
	Closure Distance: 4872.58 US ft	Closure Azimuth: 352.52°	
	Vertical Section: Position of Origin (Relative to Slot centre)		
	+N/-S: 0.00 US ft	+E/-W: 0.00 US ft	Az: 359.52°

Drill floor:	Survey Name: Definitive Survey
Rig Height (Drill Floor): 23.50us ft	Elevation above MSL: 3585.70us ft
Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Definitive Survey			
Date: 25/Apr/2017	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:

Magnetic Model:			
Model Name: bggm2017	Date: 18/Aug/2017	Field Strength: 47981.4nT	Declination: 6.99° Dip: 60.02°

Tie Point:					
MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00 US ft	North Offset: 0.00 US ft	East Offset: 0.00 US ft

Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
EMS	0.00	1333.00	Spudder Surveys
MWD	1333.00	5214.00	MWD 1
MWD	5214.00	8809.00	MWD 2
MWD	8809.00	9815.00	MWD 3

5D Survey Report

Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD	9815.00	13184.00	MWD 4
MWD	13184.00	14150.00	MWD 5

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	CLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	436096.57	787723.83	
105.00	0.10	77.00	105.00	0.02	0.02	0.09	0.10	436096.59	787723.92	
199.00	0.50	189.00	199.00	-0.37	-0.37	0.11	0.58	436096.20	787723.94	
293.00	0.30	185.00	293.00	-1.02	-1.02	0.02	0.21	436095.55	787723.85	
387.00	0.70	214.00	386.99	-1.73	-1.74	-0.32	0.49	436094.83	787723.51	
481.00	0.80	229.00	480.98	-2.63	-2.64	-1.14	0.23	436093.93	787722.69	
575.00	0.50	208.00	574.98	-3.42	-3.44	-1.83	0.40	436093.13	787722.00	
670.00	0.80	252.00	669.97	-3.99	-4.01	-2.65	0.59	436092.56	787721.18	
764.00	0.20	249.00	763.97	-4.24	-4.27	-3.43	0.64	436092.30	787720.40	
859.00	0.40	225.00	858.97	-4.53	-4.56	-3.82	0.24	436092.01	787720.01	
953.00	0.40	218.00	952.97	-5.02	-5.05	-4.25	0.05	436091.52	787719.58	
1047.00	0.70	151.00	1046.96	-5.78	-5.81	-4.18	0.70	436090.76	787719.65	
1142.00	1.00	173.00	1141.95	-7.11	-7.14	-3.79	0.46	436089.43	787720.04	
1236.00	0.60	185.00	1235.94	-8.42	-8.45	-3.74	0.46	436088.12	787720.09	
1333.00	0.40	195.00	1332.94	-9.25	-9.28	-3.87	0.22	436087.29	787719.96	Last Spudder Svy
1440.00	0.85	223.72	1439.93	-10.18	-10.22	-4.51	0.50	436086.35	787719.32	First WFT MWD Svy
1624.00	0.77	216.04	1623.91	-12.15	-12.20	-6.19	0.07	436084.37	787717.64	
1719.00	0.49	195.24	1718.91	-13.05	-13.11	-6.67	0.38	436083.46	787717.16	
1908.00	0.82	203.65	1907.90	-15.07	-15.13	-7.42	0.18	436081.44	787716.41	
2097.00	0.82	222.22	2096.88	-17.29	-17.37	-8.87	0.14	436079.20	787714.96	
2192.00	0.43	221.38	2191.87	-18.06	-18.14	-9.57	0.41	436078.43	787714.26	
2381.00	0.50	271.05	2380.87	-18.57	-18.66	-10.86	0.21	436077.91	787712.97	
2570.00	0.69	250.57	2569.86	-18.91	-19.02	-12.76	0.15	436077.55	787711.07	
2666.00	0.73	252.79	2665.85	-19.28	-19.39	-13.89	0.05	436077.18	787709.94	
2855.00	0.91	262.92	2854.83	-19.80	-19.94	-16.53	0.12	436076.63	787707.30	
2949.00	0.64	261.61	2948.82	-19.95	-20.10	-17.79	0.29	436076.47	787706.04	
3043.00	1.50	272.30	3042.80	-19.97	-20.13	-19.53	0.94	436076.44	787704.30	
3138.00	2.54	277.67	3137.74	-19.61	-19.80	-22.86	1.11	436076.77	787700.97	
3232.00	3.71	280.08	3231.60	-18.76	-18.99	-27.92	1.25	436077.58	787695.91	
3327.00	4.55	277.48	3326.35	-17.67	-17.96	-34.68	0.91	436078.61	787689.15	
3422.00	5.36	280.29	3421.00	-16.32	-16.68	-42.79	0.89	436079.89	787681.04	
3517.00	6.35	284.11	3515.50	-14.17	-14.61	-52.25	1.12	436081.96	787671.58	
3611.00	6.52	283.29	3608.91	-11.59	-12.11	-62.48	0.21	436084.46	787661.35	
3704.00	6.58	283.59	3701.30	-9.04	-9.65	-72.80	0.07	436086.92	787651.03	
3799.00	6.77	273.21	3795.66	-7.35	-8.05	-83.68	1.28	436088.52	787640.15	
3987.00	7.07	261.69	3982.30	-8.21	-9.10	-106.20	0.75	436087.47	787617.63	
4082.00	6.85	263.02	4076.60	-9.65	-10.64	-117.60	0.29	436085.93	787606.23	
4177.00	6.81	261.54	4170.93	-11.08	-12.16	-128.80	0.19	436084.41	787595.03	
4271.00	6.65	263.02	4264.28	-12.47	-13.64	-139.71	0.25	436082.93	787584.12	
4366.00	6.30	261.14	4358.67	-13.85	-15.11	-150.32	0.43	436081.46	787573.51	
4461.00	6.23	261.99	4453.11	-15.28	-16.63	-160.58	0.12	436079.94	787563.25	
4556.00	5.57	257.00	4547.60	-16.96	-18.38	-170.18	0.88	436078.19	787553.65	
4650.00	5.23	251.80	4641.19	-19.25	-20.75	-178.69	0.63	436075.82	787545.14	
4745.00	4.74	246.04	4735.83	-22.13	-23.69	-186.39	0.74	436072.88	787537.44	
4839.00	4.49	246.78	4829.52	-25.10	-26.72	-193.32	0.27	436069.85	787530.51	
4933.00	4.11	241.66	4923.26	-28.10	-29.77	-199.67	0.57	436066.80	787524.16	
5027.00	3.62	230.27	5017.04	-31.55	-33.27	-204.91	0.97	436063.30	787518.92	
5110.00	3.36	225.76	5099.89	-34.89	-36.64	-208.67	0.46	436059.93	787515.16	
5214.00	3.25	230.49	5203.72	-38.86	-40.64	-213.13	0.28	436055.93	787510.70	
5309.00	2.87	236.45	5298.58	-41.85	-43.67	-217.19	0.52	436052.90	787506.64	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
ID (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (° 100US ft)	Northing (US ft)	Easting (US ft)	Comment
5402.00	5.06	260.68	5391.36	-43.75	-45.62	-223.18	2.92	436050.95	787500.65	
5497.00	6.07	265.64	5485.91	-44.73	-46.68	-232.32	1.18	436049.89	787491.51	
5592.00	6.09	264.80	5580.38	-45.49	-47.52	-242.35	0.10	436049.05	787481.48	
5686.00	7.20	266.81	5673.75	-46.18	-48.30	-253.20	1.21	436048.27	787470.63	
5781.00	7.26	266.00	5767.99	-46.83	-49.05	-265.13	0.12	436047.52	787458.70	
5876.00	6.96	266.23	5862.26	-47.53	-49.85	-276.86	0.32	436046.72	787446.97	
6065.00	7.11	263.35	6049.84	-49.44	-51.95	-299.90	0.20	436044.62	787423.93	
6160.00	6.96	262.49	6144.12	-50.78	-53.39	-311.45	0.19	436043.18	787412.38	
6254.00	6.78	260.44	6237.45	-52.35	-55.05	-322.57	0.32	436041.52	787401.26	
6350.00	6.50	260.25	6332.80	-54.12	-56.91	-333.51	0.29	436039.66	787390.32	
6539.00	6.46	256.82	6520.60	-58.18	-61.15	-354.41	0.21	436035.42	787369.42	
6633.00	6.30	255.95	6614.01	-60.55	-63.61	-364.56	0.20	436032.96	787359.27	
6822.00	6.14	253.71	6801.90	-65.74	-68.96	-384.32	0.15	436027.61	787339.51	
6917.00	5.92	252.76	6896.38	-68.54	-71.84	-393.88	0.25	436024.73	787329.95	
7011.00	5.61	252.49	6989.90	-71.28	-74.66	-402.89	0.33	436021.91	787320.94	
7106.00	6.43	254.18	7084.38	-74.05	-77.50	-412.43	0.88	436019.07	787311.40	
7201.00	6.35	253.61	7178.79	-76.89	-80.44	-422.59	0.11	436016.13	787301.24	
7296.00	7.21	257.83	7273.12	-79.54	-83.18	-433.46	1.05	436013.39	787290.37	
7390.00	7.01	259.25	7366.40	-81.76	-85.49	-444.86	0.28	436011.08	787278.97	
7485.00	6.96	259.96	7460.69	-83.75	-87.57	-456.22	0.11	436009.00	787267.61	
7580.00	6.79	259.32	7555.01	-85.70	-89.62	-467.41	0.20	436006.95	787256.42	
7674.00	6.69	258.46	7648.36	-87.73	-91.74	-478.24	0.15	436004.83	787245.59	
7863.00	6.74	264.04	7836.07	-90.91	-95.10	-500.05	0.35	436001.47	787223.78	
7957.00	6.26	262.77	7929.46	-92.03	-96.32	-510.62	0.53	436000.25	787213.21	
8052.00	5.87	260.12	8023.93	-93.44	-97.80	-520.55	0.51	435998.77	787203.28	
8147.00	6.57	261.07	8118.37	-95.03	-99.48	-530.70	0.74	435997.09	787193.13	
8242.00	6.02	259.78	8212.80	-96.67	-101.21	-540.97	0.60	435995.36	787182.86	
8337.00	5.74	258.32	8307.30	-98.44	-103.05	-550.53	0.33	435993.52	787173.30	
8525.00	4.12	254.14	8494.60	-102.05	-106.80	-566.23	0.88	435989.77	787157.60	
8620.00	3.49	250.75	8589.39	-103.89	-108.69	-572.25	0.70	435987.88	787151.58	
8714.00	3.26	244.91	8683.22	-105.92	-110.76	-577.37	0.44	435985.81	787146.46	
8809.00	2.80	243.03	8778.09	-108.08	-112.96	-581.88	0.50	435983.61	787141.95	
8853.00	2.54	238.22	8822.04	-109.07	-113.96	-583.67	0.78	435982.61	787140.16	
8901.00	2.55	313.85	8870.01	-108.87	-113.78	-585.34	6.50	435982.79	787138.49	
8948.00	7.79	345.72	8916.81	-105.05	-109.97	-586.88	12.30	435986.60	787136.95	
8995.00	13.15	355.48	8963.01	-96.61	-101.54	-588.09	11.97	435995.03	787135.74	
9042.00	18.72	357.17	9008.19	-83.74	-88.67	-588.89	11.89	436007.90	787134.94	
9090.00	22.69	358.36	9053.08	-66.78	-71.72	-589.53	8.32	436024.85	787134.30	
9137.00	27.12	353.59	9095.70	-47.05	-52.00	-590.99	10.34	436044.57	787132.84	
9184.00	31.59	350.95	9136.66	-24.21	-29.18	-594.12	9.90	436067.39	787129.71	
9231.00	37.43	351.48	9175.37	2.13	-2.88	-598.18	12.44	436093.69	787125.65	
9279.00	41.95	352.32	9212.30	32.51	27.46	-602.49	9.48	436124.03	787121.34	
9326.00	47.51	355.58	9245.68	65.41	60.34	-605.92	12.79	436156.91	787117.91	
9373.00	51.34	358.57	9276.25	101.07	95.98	-607.72	9.47	436192.55	787116.11	
9420.00	55.24	359.76	9304.34	138.74	133.65	-608.26	8.54	436230.22	787115.57	
9468.00	58.75	0.61	9330.48	178.98	173.89	-608.12	7.46	436270.46	787115.71	
9515.00	62.12	359.78	9353.67	219.85	214.77	-607.99	7.33	436311.34	787115.84	
9562.00	65.54	359.93	9374.39	262.03	256.94	-608.09	7.28	436353.51	787115.74	
9609.00	68.90	0.51	9392.59	305.35	300.27	-607.92	7.24	436396.84	787115.91	
9657.00	71.42	1.57	9408.88	350.48	345.41	-607.10	5.65	436441.98	787116.73	
9704.00	74.65	2.21	9422.59	395.39	390.33	-605.62	6.99	436486.90	787118.21	
9752.00	78.52	1.94	9433.73	442.03	436.98	-603.93	8.08	436533.55	787119.90	
9799.00	82.64	2.28	9441.42	488.33	483.31	-602.22	8.79	436579.88	787121.61	
9815.00	84.39	2.25	9443.22	504.21	499.19	-601.59	10.94	436595.76	787122.24	
9872.00	88.60	1.96	9446.71	561.04	556.03	-599.50	7.40	436652.60	787124.33	
9966.00	89.37	1.88	9448.37	654.94	649.97	-596.35	0.82	436746.54	787127.48	
10061.00	89.58	1.97	9449.24	749.85	744.91	-593.16	0.24	436841.48	787130.67	
10155.00	89.79	1.69	9449.76	843.77	838.86	-590.16	0.37	436935.43	787133.67	
10250.00	90.35	2.44	9449.64	938.68	933.80	-586.74	0.99	437030.37	787137.09	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	L. Offset (US ft)	E. Offset (US ft)	DLS (° 100US ft)	Northing (US ft)	Easting (US ft)	Comment
10345.00	90.28	1.27	9449.12	1033.60	1028.74	-583.66	1.23	437125.31	787140.17	
10439.00	89.79	359.76	9449.06	1127.58	1122.74	-582.82	1.69	437219.31	787141.01	
10534.00	90.00	359.26	9449.24	1222.58	1217.73	-583.63	0.57	437314.30	787140.20	
10628.00	90.35	359.14	9448.95	1316.58	1311.72	-584.94	0.39	437408.29	787138.89	
10723.00	90.98	359.23	9447.85	1411.57	1406.71	-586.29	0.67	437503.28	787137.54	
10817.00	89.58	358.32	9447.39	1505.56	1500.68	-588.30	1.78	437597.25	787135.53	
10912.00	90.00	358.58	9447.74	1600.54	1595.64	-590.87	0.52	437692.21	787132.96	
11007.00	88.67	358.54	9448.84	1695.52	1690.61	-593.26	1.40	437787.18	787130.57	
11101.00	89.30	358.94	9450.50	1789.49	1784.57	-595.33	0.79	437881.14	787128.50	
11195.00	89.58	359.02	9451.42	1883.48	1878.55	-597.00	0.31	437975.12	787126.83	
11290.00	89.65	359.18	9452.06	1978.48	1973.53	-598.49	0.18	438070.10	787125.34	
11384.00	90.70	0.04	9451.77	2072.48	2067.53	-599.13	1.44	438164.10	787124.70	
11479.00	89.58	359.72	9451.54	2167.47	2162.53	-599.33	1.23	438259.10	787124.50	
11574.00	90.42	359.94	9451.54	2262.47	2257.53	-599.61	0.91	438354.10	787124.22	
11668.00	90.98	0.32	9450.39	2356.46	2351.52	-599.40	0.72	438448.09	787124.43	
11763.00	90.84	0.37	9448.89	2451.43	2446.50	-598.83	0.16	438543.07	787125.00	
11857.00	89.93	359.67	9448.25	2545.43	2540.50	-598.80	1.22	438637.07	787125.03	
11952.00	90.21	359.34	9448.14	2640.43	2635.50	-599.62	0.46	438732.07	787124.21	
12046.00	89.02	359.02	9448.77	2734.42	2729.48	-600.96	1.31	438826.05	787122.87	
12141.00	89.16	358.72	9450.28	2829.40	2824.45	-602.83	0.35	438921.02	787121.00	
12236.00	89.58	358.66	9451.32	2924.39	2919.42	-605.01	0.45	439015.99	787118.82	
12331.00	90.28	359.01	9451.44	3019.38	3014.40	-606.94	0.82	439110.97	787116.89	
12425.00	91.05	358.89	9450.35	3113.37	3108.38	-608.66	0.83	439204.95	787115.17	
12520.00	92.73	358.97	9447.21	3208.31	3203.31	-610.43	1.77	439299.88	787113.40	
12615.00	92.03	359.44	9443.27	3303.22	3298.21	-611.75	0.89	439394.78	787112.08	
12709.00	91.05	359.48	9440.74	3397.19	3392.18	-612.64	1.04	439488.75	787111.19	
12804.00	90.49	359.95	9439.47	3492.18	3487.16	-613.11	0.77	439583.73	787110.72	
12898.00	89.23	0.89	9439.70	3586.16	3581.16	-612.42	1.67	439677.73	787111.41	
12993.00	89.58	1.01	9440.68	3681.13	3676.14	-610.84	0.39	439772.71	787112.99	
13088.00	90.70	0.55	9440.45	3776.10	3771.13	-609.55	1.27	439867.70	787114.28	
13184.00	89.23	359.98	9440.51	3872.09	3867.13	-609.11	1.64	439963.70	787114.72	
13278.00	88.81	359.83	9442.12	3966.08	3961.11	-609.26	0.47	440057.68	787114.57	
13372.00	90.07	357.68	9443.04	4060.06	4055.08	-611.31	2.65	440151.65	787112.52	
13467.00	90.49	356.85	9442.57	4154.98	4149.97	-615.84	0.98	440246.54	787107.99	
13562.00	92.94	357.13	9439.73	4249.84	4244.79	-620.82	2.60	440341.36	787103.01	
13656.00	94.20	357.42	9433.88	4343.58	4338.50	-625.28	1.38	440435.07	787098.55	
13750.00	94.48	357.90	9426.76	4437.26	4432.15	-629.11	0.59	440528.72	787094.72	
13845.00	95.47	358.50	9418.52	4531.88	4526.74	-632.08	1.22	440623.31	787091.75	
13940.00	93.22	359.74	9411.33	4626.59	4621.45	-633.54	2.70	440718.02	787090.29	
14034.00	93.36	359.68	9405.93	4720.44	4715.29	-634.01	0.16	440811.86	787089.82	
14087.00	93.57	359.53	9402.73	4773.34	4768.20	-634.38	0.49	440864.77	787089.45	Last WFT MWD Svy
14150.00	93.57	359.93	9398.81	4836.22	4831.07	-634.67	0.63	440927.64	787089.16	Proj to TD